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APPLICATION NO. FILING		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/904,824		07/12/2001	Horatio Lo	M-8325-1P US	7988		
33031	7590	01/14/2004		EXAMI	EXAMINER		
		HENSON ASCOL	SHIN, CHRIS	SHIN, CHRISTOPHER B			
	SUITE 201	SPRINGS RD.	ART UNIT	PAPER NUMBER			
	TX 78759	<b>)</b> : -	2182	0			
			DATE MAILED: 01/14/2004	8			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	n No.	Applicant(s)	
. •		09/904,82	<u>.</u> 4	LO ET AL.	
	Office Action Summary	Examin r		Art Unit	
		Christophe	er B Shin	2182	
	The MAILING DATE of this c mmuni	cati n appears on the	cover sheet with th	e c rresp ndence ad	ddress
Peri d fo	• •				
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNION Insions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply or reply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no eve unication. o) days, a reply within the statu tutory period will apply and wil will, by statute, cause the appl	ent, however, may a reply be utory minimum of thirty (30) Il expire SIX (6) MONTHS fr ication to become ABANDO	e timely filed  days will be considered time rom the mailing date of this of  DNED (35 U.S.C. § 133).	
	Pagagaine to communication(a) file	d on 14 October 2001	2		
·	Responsive to communication(s) file				
·_		b)  This action is no			
3)∐	Since this application is in condition to closed in accordance with the practic				e merits is
Disposit	ion of Claims				
4)⊠	Claim(s) 1-85 is/are pending in the a	pplication.		•	
	4a) Of the above claim(s) 2-85 is/are	withdrawn from cons	ideration.		
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restrict	tion and/or election re	equirement.		
Applicat	ion Papers				
9)[	The specification is objected to by the	e Examiner.			
10)[	The drawing(s) filed on is/are:	a) accepted or b)	objected to by th	e Examiner.	
	Applicant may not request that any object	tion to the drawing(s) b	e held in abeyance. S	See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including	the correction is require	ed if the drawing(s) is	objected to. See 37 C	FR 1.121(d).
11)	The oath or declaration is objected to	by the Examiner. No	te the attached Offi	ce Action or form P	TO-152.
Priority (	ınder 35 U.S.C. §§ 119 and 120				
a) _* \$	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority of the certified copies of the priority of the copies of the copies of the copies of the certified copies of the attached detailed Office action for the latency of a claim for the copies of the certified copies of the ce	documents have been documents have been of the priority documenal Bureau (PCT Rulen for a list of the certif	n received. n received in Applic ints have been rece e 17.2(a)). ïed copies not recei	ation No ived in this National	·
s 3	Acknowledgment is made of a claim for ince a specific reference was included 7 CFR 1.78. )   The translation of the foreign lang	I in the first sentence	of the specification	or in an Application	
	Acknowledgment is made of a claim foeference was included in the first sent				
Attachmen	t(s)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT	TO 048)		ary (PTO-413) Paper No	
	nation Disclosure Statement(s) (PTO-1449) Pa		6) Other:	al Patent Application (PT	J-132)

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)

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#### **DETAILED ACTION**

1. The amendment received October 14, 2003 has been entered and carefully considered. Claim 1 has been amended and claims 2-85 have been newly added, which raises new subject matters are that not originally presented; therefore, are withdrawn from consideration.

In claim 1, line 4, examiner notes that the word "routers" should have bee "routers", i.e., the underline wasn't necessary because the original claim 1 already had "routers".

### Response to Arguments

- 2. Applicant's arguments filed October 14, 2003 have been fully considered but they are not persuasive.
- a. In response to the arguments on pages 16-19, the examiner modifies for better explanation of the art rejection without changing the Art rejection (35 USC 102e) as follows. More specifically, the examiner's interpretations of the "storage router" is a router that is connected to I/Os, peripherals or storage as taught by the Horst reference.

### **Original Presentation**

- 3. Newly submitted claims 2-85 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:
- i. Claim groups 2-25 are directed to storage network interface multiport controllers; group 26-47 are directed to storage interface devices; and group 48-85 are directed to a storage virtualization engine. The all of the groups include limitations that were not originally presented that will require additional search and consideration.
- ii. The Examiner suggest the applicant to separate the above groups into three additional/ independent inventions.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 2-85 are withdrawn from consideration as being directed to a non-elected invention. See 37 C.F.R. § 1.142(b) and M.P.E.P. § 821.03.

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### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 5. Claim 1 is rejected under 35 U.S.C. 102(e) as being clearly anticipated by Horst et al. (6,233,702).
- a. Examiner notes that the entire teachings of Horst reference is relied upon, though not all section of the Horst reference has been explicitly discussed, for the follow rejection.
  - b. In figure 1B, Host teaches all of the claimed limitations as follows:

### Claim 1 Horst Reference

- distributed storage management platform architecture comprising
  - feature of figure 1B
- a plurality of storage routers
  - feature of 14B, connected to 16A-I/O, of figure 1B, See also columns 4-5, lines 68-1, see also column 2, line 33 (disk storage), column 22, line 58 (storage controllers); examiner interprets the above teachings with router(s) connected to peripherals such as storage, which is functionally equivalent to the broadly claimed "storage router"
- each one of said storage routers comprises a plurality of interface controllers
  - feature of ports (0,1,2,3,4,5) of each router (14B), see also figure 2, in connection with figure 1B & 1C
- one of said interface controllers of each one of said storage routers is communicatively coupled to a one of said interface controllers of at least one other of said storage routers

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- feature of LA, L' of figure 1B

c. For the above reasons, the claim 1 is clearly anticipated by the teachings of the Horst reference.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any Response To This Action Should Be Mailed To:

## If The Action Is Non-Final

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### or faxed to:

(703) 892-9306, (for formal communications intended for entry)

### If The action is Final

Box AF

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### or faxed to:

(703) 892-9306, (for formal communications; please mark "EXPEDITED PROCEDURE")

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### Hand-delivered responses should be brought to

U.S. Patent and Trademark Office 2011 South Clark Place Customer Window Crystal Plaza Two, Lobby, Room 1B03 Arlington, VA 22202

# Any Other Telephone Communication Should Be Directed To

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Shin whose telephone number is (703) 305-9658. The examiner can normally be reached on Monday - Thursday from 7:00 AM to 4:00 PM.

Christopher B. Shin January 9, 2004 Christopher B. Shin

PRIMARY EXAMINER
ART UNIT 2182

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